

EXHIBIT 70

Page 1

UNITED STATES DISTRICT COURT
DISTRICT OF MINNESOTA

4 In Re: Bair Hugger Forced)
 Air Warming Products)
5 Liability Litigation:)
)
6) MDL No.: 15-2666
) (JNE/FLN)
7 This Document Relates To:)
)
8 All Actions.)
)

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16 VIDEOTAPED DEPOSITION OF WILLIAM R. JARVIS, M.D.
17 San Francisco, California
18 Tuesday, July 25, 2017

23 BY: HEIDI BELTON, CSR, RPR, CRR, CCRR, CLR
24 CSR LICENSE NO. 12885
25 JOB NO. 124789

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1 July 25, 2017
 2 9:00 a.m.
 3
 4 Videotaped deposition of WILLIAM R.
 5 JARVIS, M.D., held at One Market Plaza,
 6 Spear Tower, San Francisco, California,
 7 before Heidi Belton, a Certified Shorthand
 8 Reporter, Registered Professional
 9 Reporter, Certified Realtime Reporter,
 10 California Certified Realtime Reporter,
 11 Certified LiveNote Reporter, and NCRA
 12 Realtime Systems Administrator.
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 10 Also Present: Mordecai Boone, in-house counsel for
 11 3M; Sean McGrath, videographer.
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1 SAN FRANCISCO, CALIFORNIA
 2 TUESDAY, JULY 25, 2017
 3 9:00 a.m.
 4 THE VIDEOGRAPHER: Good morning. This is
 5 the start of file number 1, Volume I of the
 6 videotaped deposition of Dr. William Jarvis, in the
 7 matter In re: Bair Hugger Forced Air Warming
 8 Products Liability Litigation in the United States
 9 District Court, District of Minnesota. MDL number
 10 15-2666 (JNE/FLN).
 11 This deposition is being held at 1 Market
 12 Plaza, Spear Tower, San Francisco, California on
 13 July 25, 2017, approximately 9:00 a.m. My name is
 14 Sean McGrath, from TSG Reporting, Incorporated and
 15 I'm a legal video specialist. The court reporter is
 16 Heidi Belton in association with TSG Reporting.
 17 Would counsel please introduce yourselves,
 18 starting with the questioning attorney.
 19 MR. C. GORDON: Corey Gordon, Blackwell
 20 Burke, on behalf of defendants.
 21 MR. B. GORDON: Ben Gordon, on behalf of
 22 plaintiffs.
 23 MR. COFFIN: Chris Coffin, Pendley, Baudin
 24 & Coffin, on behalf of plaintiffs.
 25 MR. ASSAAD: Gabrielle Assaad, on behalf

2 (Pages 2 to 5)

<p style="text-align: center;">Page 154</p> <p>1 A. 19. Well, I probably started at least two 2 years before that. But, yeah, over 15 years. 3 Q. Okay. And going back to the sentence 4 where -- in your report where you say, "Exogenous 5 sources account for the majority of SSIs," you 6 didn't actually cite any medical literature for that 7 proposition, did you? 8 A. No. 9 Q. You just said -- that was based on your 10 years of experience at the CDC; right? 11 A. That was based on the outbreaks that we 12 investigated when I was at CDC, as well as 13 scientific literature. 14 Q. Could you turn on Exhibit 5 to page 103. 15 Direct your attention to the first full paragraph on 16 that page. Could you read that first full sentence. 17 A. The first full sentence? 18 Q. Beginning with, "For most SSIs." 19 A. "For most SSIs, a source of pathogens is 20 the endogenous flora of the patient's skin, mucous 21 membranes, or hollow viscera." 22 Q. And for that there's a citation; correct? 23 A. Correct. A study from 1968. 24 Q. The Altameier, Culbertson, and Hummel 25 study?</p>	<p style="text-align: center;">Page 155</p> <p>1 A. No. Actually -- 2 Q. Did I get that wrong? 3 A. Oh. 57. Yes, yes. Right. 1968, right. 4 Q. So the sentence in your 1999 CDC guideline 5 says, "Most pathogens are endogenous." And in your 6 report you say "most are exogenous." Right? 7 A. Right. And the -- 8 Q. Did something happen in the last four 9 years of your CDC tenure to make you change your 10 mind about everything you learned in the first 19? 11 MR. B. GORDON: Objection to form. 12 Mischaracterizes the evidence. And argumentative. 13 THE WITNESS: Well, couple of things. One 14 is it talks about endogenous. And then it talks 15 also about exogenous organisms as a source of SSI 16 include surgical personnel; operating room 17 environment; all tools, instruments, materials 18 brought to the sterile field during the operation. 19 So it doesn't exclude those. 20 But if you look at what happened between 21 this guideline -- and, actually, it started a little 22 bit before this guideline -- but a tremendous number 23 of interventions have been applied to patients to 24 reduce the endogenous flora and the importance of 25 the endogenous flora. Most of the Center for</p>
<p style="text-align: center;">Page 156</p> <p>1 Medicare/Medicaid services or CMS -- what's called 2 SCIP measures -- which is a surgical care 3 improvement -- surgical infection prevention. 4 Activities were really focused at the 5 endogenous rather than exogenous flora. So, for 6 instance, improvement of prophylactic antibiotics, 7 improvement in skin antisepsis by the use of 8 chlorhexidine alcohol rather than povidone iodine. 9 (Reporter asks for repetition.) 10 "Chlorhexidine alcohol rather than 11 povidone iodine." 12 Those activities were really aimed at the 13 endogenous flora. So there's really a lot of 14 activities on endogenous flora; not as many 15 necessarily on the exogenous flora. 16 BY MR. C. GORDON: 17 Q. Okay. So as of 1999 you were satisfied 18 that the state of the medical literature was such 19 that you could say that the majority of SSIs were 20 caused by endogenous flora; right? 21 A. Right. As endemic infections, yes. 22 Q. And that's changed in the last 18 years 23 for the reasons you mentioned; right? 24 A. Correct. 25 Q. Are you aware of any medical journal,</p>	<p style="text-align: center;">Page 157</p> <p>1 textbook, anything in the last 18 years that has 2 said what you say, which is that the majority of 3 SSIs are caused by exogenous sources? 4 A. Well, certainly the Seminars journal that 5 we gave you a copy of that gives a list of all the 6 outbreaks that CDC did as well as the role of the 7 environment. There's a number of papers in that 8 that document the role of exogenous sources of 9 infection. 10 Q. My question is very specific. You were 11 satisfied in 1999 that the majority were caused by 12 endogenous sources. And you actually cited one 13 published paper for that. In the 18 years since the 14 1999 guidelines were published, has any medical 15 journal or textbook published any kind of a 16 conclusion -- study, metanalysis, anything -- that 17 concludes that now things have shifted so such that 18 the majority of SSIs are exogenous? 19 MR. B. GORDON: Object to form; asked and 20 answered. 21 THE WITNESS: Well, I don't know that I've 22 done a search for, you know, every -- it wouldn't -- 23 Medline search wouldn't pick up books anyway. But 24 I'm not sure I've seen a specific paper looking at 25 that.</p>

<p style="text-align: center;">Page 158</p> <p>1 As I say, the Seminars journal that we 2 gave you shows all the CDC outbreaks that we 3 investigated and the surgical site outbreaks in 4 particular. Of the 22, 20 of the 22 -- actually, 21 5 of the 22 are exogenous sources of infection. The 6 reference that we gave here is 1968. So it probably 7 was changing even at this time.</p> <p>8 BY MR. C. GORDON:</p> <p>9 Q. Is the CDC called in for -- every time 10 there's a surgical site infection?</p> <p>11 A. I doubt it. They'd be kind of busy if 12 they were. No.</p> <p>13 Q. In fact, the CDC is not called in for the 14 overwhelming majority of surgical site infections 15 that occur every day and throughout the country; 16 right?</p> <p>17 A. Absolutely. Or healthcare-associated 18 infections in general. And they have to be very 19 specific in what they investigate. And we try to 20 pick outbreaks that would advance the field of 21 infection control and not be redundant of something 22 that's been shown 20 times.</p> <p>23 Q. Okay. So if patients are experiencing 24 common surgical site infections that arise from 25 endogenous flora that have been studied many times</p>	<p style="text-align: center;">Page 159</p> <p>1 over the years, that would probably not be something 2 that would result in a CDC outbreak investigation?</p> <p>3 MR. B. GORDON: Object to form.</p> <p>4 BY MR. C. GORDON:</p> <p>5 Q. Right?</p> <p>6 MR. B. GORDON: Lack of foundation. Calls 7 for speculation.</p> <p>8 THE WITNESS: Well and that's probably not 9 true. It depends on the organism. For instance, 10 like the heater-cooler investigation was a very 11 unusual organism. Very similar to what we're 12 dealing with here with Bair Hugger where it was a 13 device that was used for decades and thought to be 14 perfectly safe. That then only was recognized as 15 being a cause of infection because Mycobacterium 16 chimaera infections were occurring in cardiac 17 surgery patients. And that was very unusual. So 18 certainly if the heater coolers have been associated 19 with Staph aureus infections it probably would have 20 taken a lot longer before it would have been 21 recognized.</p> <p>22 BY MR. C. GORDON:</p> <p>23 Q. And my question went to garden variety 24 infections. Let's take Staph epidermidis. That's a 25 pretty common surgical site infection; isn't it?</p>
<p style="text-align: center;">Page 160</p> <p>1 A. Correct.</p> <p>2 Q. And probably everybody in this room has 3 Staph epidermidis bacteria; right?</p> <p>4 A. Correct.</p> <p>5 Q. Some maybe more than others.</p> <p>6 A. Possibly.</p> <p>7 MR. ASSAAD: For the record Corey Gordon 8 just looked directly right at Mr. Assaad, which is 9 myself, talking about Staph epidermidis.</p> <p>10 MR. C. GORDON: Are you feeling guilty? 11 Sorry.</p> <p>12 MR. ASSAAD: A little bit. I didn't take 13 a shower this morning, so it might be less than 14 most.</p> <p>15 BY MR. C. GORDON:</p> <p>16 Q. So a hospital experience as a single 17 surgical site infection involving Staph epidermidis, 18 that wouldn't be the type of thing that would result 19 in CDC getting a call and starting an outbreak 20 investigation; right?</p> <p>21 MR. B. GORDON: Object to the form. Calls 22 for speculation, the source of the outbreak.</p> <p>23 THE WITNESS: Well, if it was the 24 infecting pathogen, I think it's probably unlikely 25 that it would lead to a CDC investigation. On the</p>	<p style="text-align: center;">Page 161</p> <p>1 other hand, if it were Staph epidermidis that had a 2 very unusual antibiogram, for instance, so -- 3 (Reporter asks for repetition.)</p> <p>4 Antibiogram. So, for instance, when the 5 first reported Staph aureus or MRSA that had 6 vancomycin intermediate resistance -- 7 (Reporter asks for repetition.)</p> <p>8 Vancomycin intermediate resistance occur 9 it was N of 1. And we investigated to try to 10 identify what was going on.</p> <p>11 Now, if it had been an MRSA or a Staph 12 aureus with a very common antibiotic susceptibility 13 pattern, we wouldn't have investigated probably.</p> <p>14 BY MR. C. GORDON:</p> <p>15 Q. And take away from that what the CDC 16 investigates is unusual circumstances. A cluster of 17 more infections than you would normally expect for 18 an unusual type of pathogen.</p> <p>19 MR. B. GORDON: No question yet.</p> <p>20 BY MR. C. GORDON:</p> <p>21 Q. Right?</p> <p>22 MR. B. GORDON: Object to the form.</p> <p>23 THE WITNESS: Well, it's a combination of 24 factors. So it's unusual -- or I mean, it's an 25 unusual antibiogram association with a medical</p>

<p style="text-align: center;">Page 162</p> <p>1 device that's not been known to be a source before 2 like the heater-cooler. So there's a list of 3 different possibilities of what would be 4 investigated. But certainly every infection that 5 occurs would not be investigated.</p> <p>6 BY MR. C. GORDON:</p> <p>7 Q. So the fact that 20 of the 21 8 investigations that you referred to that the CDC 9 investigator proved to be exogenous sources, are you 10 saying that that tells you that all the infections 11 that you didn't investigate must also be 12 predominantly exogenous?</p> <p>13 MR. B. GORDON: Objection to form. 14 Misstates his testimony.</p> <p>15 THE WITNESS: Yeah, I wouldn't say it 16 necessarily is -- is -- reflects that. But it does 17 show that even though many of those were Staph 18 aureus infections and some like Dr. Wenzel would say 19 that's exogenous organisms. In fact, when we 20 investigated them, they weren't. And without 21 investigating them, you don't know.</p> <p>22 BY MR. C. GORDON:</p> <p>23 Q. I go back to my earlier question. Can you 24 point me to any published medical literature in the 25 last 18 years that says that now the majority of</p>	<p style="text-align: center;">Page 163</p> <p>1 SSIs are caused by exogenous sources? 2 MR. B. GORDON: Objection; asked and 3 answered.</p> <p>4 THE WITNESS: As I mentioned, that 5 Seminars in Infection Control has a number of papers 6 in there that would address that. I'm sure there 7 are others in the published literature talking about 8 the relative relationship between endogenous and 9 exogenous sources.</p> <p>10 BY MR. C. GORDON:</p> <p>11 Q. When you say you're sure there are, have 12 you done research to see if that's the case?</p> <p>13 A. I have not looked recently. It would be 14 pretty easy to do.</p> <p>15 Q. But you didn't do that?</p> <p>16 A. No.</p> <p>17 Q. So when you said on page 5 of your report, 18 "Exogenous sources account for the majority of 19 SSIs," that was based on your own personal analysis; 20 right?</p> <p>21 A. Well, personal analysis as well as 22 experience at CDC investigating outbreaks for 17 23 years.</p> <p>24 Q. Well, you had had that experience in 1999 25 when you wrote, "For most SSIs, the source of</p>
<p style="text-align: center;">Page 164</p> <p>1 pathogens is the endogenous flora of the patient's 2 skin"; right?</p> <p>3 A. Well, I hadn't had it all in 1999. I had 4 been there -- what? -- 19 -- 17 years probably when 5 I started. It had been 19 years.</p> <p>6 Q. Okay. And so --</p> <p>7 A. So it was changing. And that is a 8 reference from 1968, which is a few years before 9 that.</p> <p>10 Q. Well, in 1999 when you were applying the 11 CDC gold standard methodology, I assume you took 12 note of the fact that some study you were citing was 13 1968 and you would have done at least some research 14 to see if that was still a valid study or if there 15 were more contemporary things that called that into 16 question; right?</p> <p>17 A. I'm sure there was some literature 18 reviewed, yes.</p> <p>19 Q. And if you had found something post 1968, 20 which challenged the statement that you put out in 21 these guidelines, you would have at least considered 22 it and perhaps mentioned it; right?</p> <p>23 A. Well, we do mention in the next paragraph. 24 It basically is a paragraph on endogenous and a 25 paragraph on exogenous.</p>	<p style="text-align: center;">Page 165</p> <p>1 Q. Okay. I'm talking -- and again I 2 understand there -- you talk about exogenous and 3 endogenous.</p> <p>4 You would agree with me that what you say 5 in 1999 says that "more than 50 percent of SSIs are 6 caused by endogenous sources." What you're saying 7 now in this expert report is that more than 8 50 percent of SSIs are caused by exogenous sources; 9 right?</p> <p>10 MR. B. GORDON: Objection to form. And 11 you're misquoting the citation you're referring to 12 now, Corey. You're using "causes" instead of 13 "sources." And before you were saying "sources." 14 So just be clear for the record exactly what you're 15 asking him.</p> <p>16 BY MR. C. GORDON:</p> <p>17 Q. And I'll accept that as a friendly 18 amendment. My question relates to "sources," not 19 "causes."</p> <p>20 A. Okay. I think what we were trying to do 21 in the SSI guideline is basically point out that 22 both endogenous and exogenous sources of pathogens 23 are important in patients undergoing SSIs.</p> <p>24 The other thing is that this guideline is 25 a guideline for all SSIs, not specific to prosthetic</p>

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1 MR. B. GORDON: Objection to the form.
 2 Also mischaracterization.
 3 THE WITNESS: Well, there are certainly
 4 many endogenous and exogenous source possibilities.
 5 Some of which are -- or many of which you hopefully
 6 can eliminate.
 7 BY MR. C. GORDON:
 8 Q. And the only way you can eliminate them is
 9 if you investigate them; right?
 10 MR. B. GORDON: Object to the form.
 11 THE WITNESS: Well, you can do -- it
 12 depends on if it's a cluster or an individual case.
 13 Obviously if it's a cluster, trying to do an
 14 epidemiologic study can assist you in identifying
 15 whether it's personnel that are the source or
 16 potentially the patient or equipment.
 17 BY MR. C. GORDON:
 18 Q. And how do you do that in an individual
 19 case?
 20 A. It's a little bit more difficult, but you
 21 look -- I think in the individual case, you also
 22 focus on kind of the timeline of events of what has
 23 happened and looking at all the different prevention
 24 interventions, some of which we've talked about such
 25 as skin prep, timing of prophylactic antibiotics,

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1 breaks in aseptic technique, the duration of the
 2 procedure. So a lot of individual factors that may
 3 either increase or decrease the risk for infection
 4 occurring.
 5 MR. B. GORDON: For the record I want to
 6 interpose an objection here.
 7 I'll give you some latitude, Corey, but
 8 we're to talk about general causation today. There
 9 is a thing contemplated the other day for
 10 case-specific causation. Will be a different
 11 report, different deposition. But if you want to
 12 ask those questions today, then we're going to take
 13 the position that you're done after today.
 14 BY MR. C. GORDON:
 15 Q. Going back to -- I want to look back on
 16 page 127 where you talk about other well-established
 17 modes of transmission such as transient hand
 18 carriage by healthcare workers. How could you --
 19 how -- what was your -- what -- strike that.
 20 You -- you do say here that in outbreaks
 21 those were not investigated or eliminated. Would
 22 there have been a methodology for investigating or
 23 eliminating those?
 24 A. Well, you could follow the same pattern
 25 of, you know, medical record review, and line

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1 listing, epidemiologic studies to try to identify
 2 what the risk factors for infection are. And there
 3 certainly would be some ways to try to address that.
 4 It's obviously -- if the outbreak is ongoing, and
 5 it's probably easier to do than if the outbreak
 6 stopped two weeks ago. So it's a little -- the type
 7 of the investigation tends to be tailored to the
 8 specific outbreak and the timing of that outbreak
 9 and what's available, what's not as to what you can
 10 do.
 11 Q. How do you define an outbreak?
 12 A. Well, I think the generally accepted
 13 definition is it's the frequency of occurrence of an
 14 event that is above the baseline rate and reaches a
 15 statistical significance. And that's usually the
 16 definition that is used. And there is somewhat a
 17 differentiation of "epidemic" or "outbreak" from
 18 "endemic." So a lot of the infections that occur
 19 are endemic infections, particularly if it's a
 20 patient's own endogenous flora.
 21 And so if you look at a hospital within,
 22 say, MRSA infection rate, they've got a long period
 23 of time where they've had MRSA infections and
 24 there's some kind of background rate of what that
 25 is. With an outbreak, it assumes that you have that

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1 background rate or can calculate that background
 2 rate and then look at what the rate of event is
 3 during a putative outbreak period and then do a
 4 statistical analysis to see if the rate is increased
 5 statistically.
 6 Q. One of the papers that you rely on for
 7 your opinion is the McGovern 2011 study. We talked
 8 a little bit about it earlier. It had bubble
 9 component to it. And it also had a -- an
 10 observational study component to it; correct --
 11 MR. B. GORDON: Object to the form --
 12 BY MR. C. GORDON:
 13 Q. -- do you agree?
 14 MR. B. GORDON: -- counsel's use of the
 15 word "reliance" -- "reliance" or "relied on,"
 16 something like that.
 17 What's the question?
 18 BY MR. C. GORDON:
 19 Q. Well --
 20 A. The question was whether they had two
 21 components or not?
 22 Q. Do you rely on the McGovern study?
 23 MR. B. GORDON: Objection to counsel's
 24 characterization, use of the word "rely."
 25 THE WITNESS: As I said before, I look at

<p style="text-align: center;">Page 190</p> <p>1 all of the papers that I've read, my experience; you 2 know, 23 years at CDC, both in terms of outbreak 3 investigations, developing surveillance definitions, 4 assisting with the development of the surveillance 5 system and knowing surveillance data. All of that 6 is incorporated in how I look at the data and how I 7 reach the conclusions in my report. So certainly 8 the Albrecht study was one of many that I looked at 9 that --</p> <p>10 BY MR. C. GORDON:</p> <p>11 Q. You mean the McGovern -- well, Albrecht 12 was an author. You're talking about McGovern?</p> <p>13 A. McGovern was one of many that I referenced 14 in my report.</p> <p>15 Q. Was there any other study that you 16 referenced in your report that purported to show a 17 relative risk of Bair Hugger versus some other 18 warming modality in terms of joint infections?</p> <p>19 A. No. That was -- that was the solid one.</p> <p>20 Q. So you -- before -- I assume before you 21 decided whether that was something worthy of your 22 inclusion in your report, you wanted to -- see if I 23 can find your exact phrase -- you wanted to look 24 critically and evaluate all the data, not just some 25 of the data; right?</p>	<p style="text-align: center;">Page 191</p> <p>1 A. Correct. 2 Q. So did you do that with the McGovern 3 paper? 4 A. Yes. 5 Q. Okay. Well, did you -- in considering the 6 McGovern paper, did you look at the specific pattern 7 of infections? 8 A. I'm not sure what you mean by "pattern." 9 Q. Well, the -- okay. Did you -- when you 10 were looking critically in evaluating all the data, 11 did you look at the individual infection types that 12 were occurring during the study, the two arms of the 13 study period? 14 A. When you mean infection types, you mean 15 the pathogens? 16 Q. The pathogens, the bugs. 17 A. I certainly looked at that, yeah. 18 Q. And how did -- well, what -- what did you 19 look at to -- to assess that? 20 A. You mean specifically what did I look at? 21 Q. Right. Are you talking about just what 22 was printed in the study, or did you look at 23 anything else? 24 A. I looked at a line list that I believe was 25 one of the exhibits.</p>
<p style="text-align: center;">Page 192</p> <p>1 MR. C. GORDON: See if this helps. 2 (Exhibit 18 marked.)</p> <p>3 BY MR. C. GORDON:</p> <p>4 Q. I'll show you what's been marked as 5 Exhibit Jarvis 18. Previously marked as McGovern 6 Exhibit 16.</p> <p>7 A. Yeah, that looks like it.</p> <p>8 Q. So you reviewed this in your -- looking 9 critically in evaluating all the data of the 10 McGovern study; is that right?</p> <p>11 A. Right.</p> <p>12 Q. Did you -- let's focus on Staph aureus, 13 both methicillin susceptible and methicillin 14 resistant.</p> <p>15 Did you look at the number of Staph aureus 16 cases that occurred during the Bair Hugger-only 17 period and compare that to the number of Staph 18 aureus cases that occurred during the HotDog-only 19 period?</p> <p>20 A. Yes.</p> <p>21 Q. And what did you find?</p> <p>22 A. First of all, I found that my eyes are not 23 good and I needed a --</p> <p>24 Q. Copy that.</p> <p>25 A. -- magnifier for this thing. That was the</p>	<p style="text-align: center;">Page 193</p> <p>1 first thing I learned. 2 Second I learned that it's hard to read 3 and there's duplication of information in it. And I 4 believe that -- I'm trying to see the -- I had them 5 lined up so it made it easier to see. But I guess 6 over here is -- that during the HotDog period, there 7 were infections caused by Staph epidermidis, 8 Enterococcus but none by Staph aureus. 9 Q. And during the HotDog -- strike that. 10 So during the HotDog period there was zero 11 Staph aureus infections; correct? 12 A. There were only three infections but, 13 yeah, none were Staph aureus. 14 Q. And you read Dr. Reed's testimony where he 15 said there should have been an additional infection 16 in the HotDog -- 17 A. Right. 18 Q. -- arm, correct? 19 A. Right. I don't know what the pathogen was 20 with that one. It might have been Staph aureus; I 21 don't know. 22 Q. And in the Bair Hugger-only period, how 23 many Staph aureus infections were there? 24 A. I don't know that I counted them. 25 MR. B. GORDON: Just for the record while</p>